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## A Contribution to the Knowledge of the Flora of Japan.

(Continued from p. 18.)

By

**Tomitarô Makino, Sc. D.**

**PASANIOPSIS** KUDÔ, nov. gen., Nippon-Yûyôshokubutsu-Bunruigaku  
[Systematic Botany of Useful Plants of Japan] (1922), p. 134.

"Tree. Leaves evergreen, distichously alternate; stipules caducous. Flowers monoecious. Male flower in the axil of bracts, with 2 bracteoles, spicate; spike erect from the axil of leaves. Calyx saucer-shaped, 5-6-parted; lobes broad-ovate to elliptical. Stamens 10-12, much longer than the calyx; filament long; anther oval, 2-celled. Rudimentary ovaries 3, minute, hairy. Female flower in the axil of bracts, with numerous bracteoles, spicate; spike erect. Calyx urceolate, 6-parted. Ovary 3-celled, 2-ovuled in the each cell. Styles 3, short. Involucre with repand ridges externally, entirely enveloped when young, but dehiscent into reflexed 3 lobes when ripe. Nut solitary, with persistent styles at the top, mature in the next year. Seed 1, with the rudimentary ovules towards the top. Cotyledons very thick. Species 2, Japanese. (Etymology) *Pasania*-like."—YûSHUN KUDÔ, l. c.

**Pasaniopsis Sieboldi** (MAKINO) KUDÔ, l. c. p. 135.

*Pasania cuspidata* var. *Sieboldi* MAKINO in Bot. Mag., Tokyo, XXIII.  
(1909), p. 141.

*Pasania Sieboldi* MAKINO, l. c. XXIV. (1910), p. 232.

var. **pusilla** MAKINO, nov. comb.

*Pasania Sieboldi* var. *pusilla* MAKINO, l. c. XXIV. (1910), p. 233.

Nom. Jap. *Hime-jii*.

*Hab.* JAPAN, cultivated.

**var. rotundifolia** MAKINO, nov. comb.

*Pasania Sieboldi* var. *rotundifolia* MAKINO, l. c. XXIV. (1910), p. 233.

Nom. Jap. *Maruba-jii*.

*Hab.* JAPAN, cultivated.

**var. serratifolia** MAKINO, nov. var.

Leaves petiolate, ovato-lanceolate or lanceolate, caudato-acuminate with an obtuse tip at the apex, acute at the base, distinctly serrate with obtuse-tipped erect-patent teeth except the lower portion, which is quite entire, green and glabrous above, pale-drab but drab-gilvous when young with appressed scarfs beneath, thick and coriaceous, about 4-8½ cm. long, 2-3½ cm. broad; veins 7-9 on each side, erect-patent, hardly arcuate upwards, inconspicuous; petiole 1-1½ cm. long.

Nom. Jap. *Hiragi-jii* (nov. nom.).

*Hab.* Prov. MUSASHI: Tokyo, planted, rare.

**Melia Azedarach** L. var. **Toosendan** (SIEB. ET ZUCC.) MAKINO, nov. comb.

*Melia Toosendan* SIEB. ET ZUCC. in Abhandl. Akad. Muench. IV. 2 (1845), p. 159; MIQ. Prol. Fl. Jap. p. 211; FRANCH. ET SAV. Enum. Pl. Jap. I. p. 75; CAS. DC. in DC. Monogr. Phanerog. I. p. 453; DIELS in ENGL. Bot. Jahrb. XXIX. p. 426.

*Melia japonica* var. *Toosendan* MAKINO in Sched. Herb. Sc. Coll. Imp. Univ. Tokyo.

*Melia Azedarach* var. *japonica* subvar. *Toosendan* MAKINO in Bot. Mag., Tokyo, XXVIII. (1914), p. 35; MAKINO ET NEMOTO, Fl. Jap. (1925), p. 661.

Nom. Jap. *Tô-sendan*.

Nom. Sin. 川楝子 (*Ch'uen-lien-tsze*).

*Hab.* Prov. TOSA: Kôchi, planted (T. MAKINO!).

**var. intermedia** (MAKINO) MAKINO, nov. comb.

*Melia Azedarach* var. *japonica* subvar. *intermedia* MAKINO in Bot. Mag., Tokyo, XXVIII. (1914), p. 35; MAKINO ET NEMOTO, Fl. Jap. (1925), p. 661.

Leaflets more or less serrate. Fruits smaller than those of *Toosendan*.

Nom. Jap. *Ainoko-sendan* (nov. nom.).

*Hab.* Prov. TOSA: Kôchi, planted (T. MAKINO!).

A hybrid between var. *Toosendan* and var. *japonica*.

**Sasa agrestis** (MAKINO) MAKINO, nov. comb.

*Pleiblastus viridi-striata*  $\beta$ . *agrestis* MAKINO in Journ. Jap. Bot. III. 3 (1926), p. 11.

*Arundinaria viridi-striata*  $\beta$ . *agrestis* MAKINO.

*Add. Descr.* Culm attaining about 1½ m. in height; internode attaining about 22 cm. long; branches one to nodes, erect-patent, slender, terete, fistulose,

smooth, glabrous, often laxly again ramulose. Leaves chartaceous or chartaceo-coriaceous; veinlets finely tessellate with rectangular areolae mixed with square ones; shoulder-fimbriae radiant, puberulous below, sometimes obsolete.

Nom. Jap. *Tatara-zasa*. (nov. nom.), *Ao-kamurozasa*.

Hab. KÔZUKE: Near Tatara-numa (T. MAKINO!).

**Sasa Komiyamana** MAKINO ET HISAUCHI, nov. sp.

An evergreen small bamboo, about 1½ m. high. Culm terete, fistulose, smooth, glabrous, about 4 mm. in diameter in our specimen, green or purpurascens; node slightly prominent, glabrous; internode white-bloomy under the nodes; branches one to nodes, erect-patent, flexuous, ramose into branchlets, which are slender and clothing with sheaths. Leaves shortly petioled, narrowly lanceolate, acuminate at the apex, rounded-obtuse but acute in the superior ones at the base, minutely spinulose on margin, about 10-20 cm. long, 1-2½ cm. broad, chartaceous, green and glabrous above, subglaucous and thinly pubescent with white hairs beneath, shallowly or deeply white-decayed in winter; midrib very slender, prominent beneath; veins 4-6 on each side; veinlets finely tessellate with rectangular areolae mixed with square ones; petiole 2-5 mm. long, compressed, cuneiform, coriaceous, glabrous but minutely puberulous at the base in front; sheath closely encircled, often purpurascens, glabrous, finely striate, coriaceous, obtusely ridged above dorsally; ligule short, truncate, minutely puberulous dorsally, ½-1 mm. long; shoulder-fimbriae?

Nom. Jap. *Fujimae-zasa* (nov. nom.).

Hab. Prov. SURUGA: Higashiyama near Gotemba (KIYOTAKA HISAUCHI! March 28, 1928).

We have named this species in memory of Mr. TOMITARÔ KOMIYAMA, a nursery-man in the locality in which this new bamboo was found.

**Ternstroemia japonica** THUNB. var. *sub serrata* MAKINO, nov. var.

An evergreen shrub; branches verticillate, erect-patent or spreading, terete, dispersed with many minute elevated lenticels, glabrous, brownish-grey. Leaves approximate, falsely verticillate on branchlets, patulous, petiolate, obovato-oblanccolate or oblanceolate, rounded or obtuse with a slightly emarginate tip at the apex, gradually cuneate towards the base, laxly obsoletely serrate on margins except in the basal portion, 4-8 cm. long, 1½-2½ cm. broad, thickly coriaceous, glabrous, deep-green and shining above, light green beneath; venations inconspicuous; veins loose, more or less visible on the upper surface when fresh; petiole 4-8 mm. long, purplish, glabrous.

Nom. Jap. *Hime-mokkoku* (nov. nom.).

Hab. Prov. HITACHI: Near Mito, KIMURA's Garden, cultivated (T. MAKINO! May 21, 1928.).

The external appearance of this plant seems like that of *Daphne odora* THUNB.

**Polygonum hachidyoenae** MAKINO, sp. nov.

A robust perennial, attaining about 1 m. or more in height, glabrous. Rhizome hypogaeous, long-creeping. Stem erect, about 15 mm. in diameter, terete and slightly striate, fistulose with a thick wall, with many nodes, smooth, loosely ramose, flexuous above, pale-greenish and somewhat white-bloomy, often purplish, thinly dispersed with minute purple spots. Leaves alternate, petiolate, ovato-oval or oval, abruptly acuminate with a sharp point at the apex, widely truncate with obtuse side-angles and acutely short-protrudent to the petiole at the base, entire and more or less crispate on margin, attaining about 17 cm. long and 12 cm. wide, firmly herbaceous but chartaceous when dried, green and more or less shining above, light green beneath; midrib prominent beneath, pale; veins pinnate, about 8-10 on each side, prominent beneath, erect-patent, arcuate upwards, connected each other near the margins; veinlets subreticulated beneath, reticulato-elevated on the upper surface when dry; ochrea tubular, very thinly membranaceous, loosely vertical-veined, about 8-25 mm. long, truncate or obliquely so at the mouth; petiole terete, shallowly canaliculate in front, smooth, purplish, 20-33 mm. long. Panicles terminating the stem and branches with small white and many flowers.

Nom. Jap. *Hachijô-itadori*.

*Hab.* Prov. IDZU: Ins. Hachidyô.

**Polygonum Reynoutria** (HOUTTUN) MAKINO in Bot. Mag., Tokyo, XV. (1901), p. 84.

*Reynoutria japonica* HOUTT. Nat. Hist. XXVI. (1777), p. 640, tab. LI. fig. 1.

*Polygonum cuspidatum* SIEB. ET ZUCC. in Abh. Akad. Muench. IV. 3, p. 208.

var. **variegatum** MAKINO, nov. var.

Leaves variegated with white and rose.

Nom. Jap. *Fuiri-itadori* (nov. nom.).

*Hab.* JAPAN, gardens.

**Liriope graminifolia** (L.) BAKER var. **praealba** MAKINO, nov. var.

Leaves white at first, but then green.

Nom. Jap. *Okina-gusa* (RYÔAN TERAJIMA'S Wakan-sansai-dzue, XCIV.), *Okina-yaburan* (nov. nom.).

*Hab.* JAPAN, gardens.

**Hosta Sieboldiana** ENGL. var. **aureo-marginata** MAKINO, nov. var.

Leaves green and deeply marginated with yellow.

Nom. Jap. *Kifukurin-tôgibôshi* (nov. nom.).

*Hab.* JAPAN, gardens, rare.

(To be continued.)